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# NOVA SCOTIA PEAT RESOURCES EVALUATION: PROGRESS AND STATUS OF PEAT CHEMISTRY FILE 1984

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# NOVA SCOTIA PEAT RESOURCES EVALUATION: PROGRESS AND STATUS OF PEAT CHEMISTRY FILE 1984

by

G.W. Bonnell*, G.R. Corbett** and D.A. Young**

## SUMMARY

Under the Canada - Nova Scotia Development Agreement signed February 17, 1975, Canada, through the Department of Regional Economic Expansion (DREE), contributed to mineral exploration and evaluation in Nova Scotia. The second Canada - Nova Scotia Mineral Development Agreement signed December 1, 1981 calls for a continuation of that effort.

Both agreements provide in part for a Peat Resource Inventory and Evaluation in Nova Scotia. This report presents the analyses of Nova Scotia peat samples for 1984, by the CANMET laboratory located at Sydney, Nova Scotia.

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# ÉVALUATION DES RESSOURCES HOUILLÈRES DE LA NOUVELLE-ÉCOSSE: ÉTAT ET ÉVOLUTION DU DOSSIER SUR LA CONSTITUTION DE LA TOURBE 1984

par

G.W Bonnell*, G.R. Corbett** et D.A. Young**

## SOMMAIRE

En vertu de l'entente sur l'exploitation minérale ratifiée par le Canada et la Nouvelle-Écosse le 17 février 1975, le Canada, par l'intermédiaire du Ministère de l'expansion industrielle régionale (MEIR) a participé à l'exploration et à l'évaluation des minéraux en Nouvelle-Écosse. La deuxième entente sur l'exploitation minérale ratifiée par le Canada et la Nouvelle-Écosse le 1$^{er}$ décembre 1981, prévoit la prolongation de cette collaboration.

Les deux ententes assurent en partie un inventaire et une évaluation des ressources houillères de la Nouvelle-Écosse. Le rapport présente les résultats d'une analyse d'échantillons de tourbe pour l'année 1984 effectuée au laboratoire du CANMET situé à Sydney, Nouvelle-Écosse.

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# INTRODUCTION

Under the Canada - Nova Scotia Development Agreement signed February 17, 1975, Canada, through the Department of Regional Economic Expansion (DREE), contributed to mineral exploration and evaluation in Nova Scotia. The second Canada - Nova Scotia Mineral Development Agreement signed December 1, 1981 calls for a continuation of that effort. Both agreements provide in part for a Peat Resource Inventory and Evaluation in Nova Scotia.

This report presents the analyses of Nova Scotia peat samples for 1984, by the CANMET laboratory located at Sydney, Nova Scotia. Analyses done in Sydney were performed by G.W. Bonnell, G.R. Corbett and D.A. Young.

Sample information and analyses are briefly discussed below:

The proximate analysis includes mass per cent of moisture, ash, volatile matter and fixed carbon. These values are presented on an air dried basis and were ashed at 750°C.

Sulphur analyses are reported as mass per cent sulphur on an air dried basis and are characteristically low. Sulphur results for the 1984 peat samples were obtained using the Leco SC-32 infrared detection system.

Heating values are reported in MJ/kg and BTU/lb, also on an air dried basis. Composite samples used for determining heating values were prepared by using proportional samples based on the sample intervals and dry bulk densities.

Air dried moisture is the moisture loss determined on air drying at approximately 25°C and 46% relative humidity. Average drying periods were about three weeks at which time the samples were determined not to contain any remaining adherent or surface moisture. It was for these samples (after being pulverized to -60 mesh) that proximate, sulphur and heating values were obtained and reported on an air dried basis.

Total moisture is the total of the moisture loss determined from air drying and oven drying (part of the proximate analysis) at 107°C.

Wet bulk densities were calculated by dividing the volume of the sample, which was computed from the cross sectional area of the peat sampler X sample length and dividing it into the mass of the sample.

Dry bulk densities were determined by taking the volume of the air dried "rough crushed" sample in a graduated cylinder and dividing this into the air dried mass of the sample.

A certain amount of caution should be exercised when looking at air dried moisture, (total moisture) and wet bulk density results because water had leaked from several of the sample bogs when received.

Depths are given in centimeters.

Humification is the degree to which the peat material has broken down under anaerobic conditions in water. The von-Post scale is used, where values from 1 to 10 are given, with a value of 1 for non-living unhumified peat and 10 for completely humified peat.

Table 3 gives explanations for the symbols used under Peat Types and Remarks.

When available the following information is given for each hole: bog name, bog number, date sampled, coordinates of the hole, place name and county (Tables 1 and 2).

Coordinates are given with respect to where the samples were taken in the bog. A baseline was drawn across the widest point (usually N to S). Distances are given in meters and the approximate location of the hole can be determined from the given coordinates. It should be noted that no coordinates are available for the bog itself; however, the approximate location can be determined from the place name, county and from the map shown in Fig. 1.

A total of 187 samples were analyzed for a total of 1,710 data items.

## ACKNOWLEDGEMENTS

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Table 1 - Information pertaining to peat bogs

| Laboratory No. | | Depth | | | | | |
|---|---|---|---|---|---|---|---|
| From | To | (cm) | Bog name (place) | Bog # | Location | County | Page |
| PE-171-84 | PE-190-84 | 440 | MacLeod's Lake | X0171 | B35N | Richmond | 4 |
| PE-192-84 | PE-206-84 | 415 | Barren Hill Bog | X0173 | B50W | Richmond | 4 |
| PE-208-84 | PE-217-84 | 450 | Rocky Brook | X0191 | B125W60S55E615 | Cape Breton | 5 |
| PE-219-84 | PE-232-84 | 450 | Fourchu Bog | X0195 | B10W | Richmond | 5 |
| PE-234-84 | PE-259-84 | 583 | Rams Head Bog | X0231 | B13N30E | Cape Breton | 6 |
| PE-261-84 | PE-269-84 | 375 | Marcoche Lake Bog | X0237 | B20E | Cape Breton | 6 |
| PE-271-84 | PE-281-84 | 249 | MacDonald Lake West | X0251 | B50S | Cape Breton | 7 |
| PE-283-84 | PE-304-84 | 500 | Morrison Brook | X0253 | B70W | Cape Breton | 7 |
| PE-306-84 | PE-318-84 | 427 | Baleine Bog | X0491 | B45E30S | Cape Breton | 8 |
| PE-320-84 | PE-332-84 | 520 | Black Brook Meadows | X0531 | B30E | Cape Breton | 8 |
| PE-334-84 | PE-367-84 | 833 | Sand Lake Bog | X0795 | B140E10S | Cape Breton | 9 |

Table 2 - Analysis of Nova Scotia peat samples

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bog # X0171 Site # B35N Aug 15/84 | | | | | | | MacLeod's Lake, Richmond Co. | | | | | | | | | | |
| PE-171-84 | C1 | 0 | 47 | 2 | S0 | | 9.99 | 1.12 | 65.25 | 23.64 | .17 | | | 89.77 | 90.79 | .655 | .090 |
| PE-172-84 | C2 | 47 | 50 | 3 | S0 | N | 9.61 | 1.57 | 60.91 | 27.91 | .28 | | | 88.20 | 89.33 | 1.175 | .125 |
| PE-173-84 | C3 | 50 | 75 | 2 | S0 | N | 9.53 | .99 | 64.07 | 25.41 | .20 | | | 91.62 | 92.42 | .955 | .080 |
| PE-174-84 | C4 | 75 | 100 | 4 | S9N1 | | 10.26 | 1.14 | 61.64 | 26.96 | .22 | | | 91.89 | 92.72 | 1.030 | .120 |
| PE-175-84 | C5 | 100 | 128 | 2 | S0 | N | 9.98 | 1.06 | 62.75 | 26.21 | .23 | | | 92.46 | 93.21 | 1.025 | .095 |
| PE-176-84 | C6 | 128 | 150 | 4 | S9N1 | | 10.42 | 1.04 | 60.04 | 28.50 | .25 | | | 90.49 | 91.48 | 1.000 | .135 |
| PE-177-84 | C7 | 150 | 167 | 2 | S0 | | 10.11 | 1.03 | 63.35 | 25.51 | .17 | | | 92.74 | 93.47 | 1.000 | .075 |
| PE-178-84 | C8 | 167 | 217 | 4 | S9N1 | | 10.78 | 1.13 | 61.02 | 27.07 | .22 | | | 91.63 | 92.53 | 1.030 | .160 |
| PE-179-84 | C9 | 217 | 225 | 3 | S9N1 | | 9.60 | 1.18 | 63.05 | 26.17 | .21 | 8109. | 18.86 | 92.90 | 93.58 | .995 | .120 |
| PE-180-84 | D0 | 225 | 234 | 4 | H8S1N1 | | 9.64 | .98 | 60.54 | 28.84 | .21 | | | 90.13 | 91.08 | 1.010 | .200 |
| PE-181-84 | D1 | 234 | 250 | 5 | S7N2C1 | | 10.45 | 1.43 | 58.51 | 29.61 | .24 | | | 90.18 | 91.21 | 1.060 | .240 |
| PE-182-84 | D2 | 250 | 279 | 5 | S8N2 | | 10.63 | 1.56 | 59.23 | 28.58 | .24 | 8458. | 19.67 | 90.24 | 91.28 | .690 | .230 |
| PE-183-84 | D3 | 279 | 287 | 6 | S6C2N2 | | 10.09 | 1.92 | 59.01 | 28.98 | .33 | | | 89.47 | 90.53 | 2.370 | .325 |
| PE-184-84 | D4 | 287 | 300 | 6 | C7S2N1 | | 10.00 | 1.84 | 60.19 | 27.97 | .29 | | | 90.93 | 91.84 | .975 | .340 |
| PE-185-84 | D5 | 300 | 322 | 5 | C7S3 | | 9.30 | 1.86 | 61.65 | 27.19 | .35 | 8846. | 20.58 | 91.30 | 92.11 | 1.030 | .395 |
| PE-186-84 | D6 | 322 | 355 | 6 | C8S2 | | 9.48 | 6.59 | 58.11 | 25.82 | .53 | | | 90.31 | 91.23 | 1.030 | .440 |
| PE-187-84 | D7 | 355 | 375 | 6 | S0 | | 7.89 | 46.47 | 33.09 | 12.55 | .31 | 4503. | 10.47 | 86.24 | 87.33 | 1.080 | .265 |
| PE-188-84 | D8 | 375 | 390 | 7 | S0 | | 8.07 | 49.80 | 30.95 | 11.18 | .31 | | | 86.22 | 87.33 | 1.065 | .245 |
| PE-189-84 | D9 | 390 | 431 | | OOZ | | 7.41 | 61.43 | 23.89 | 7.27 | .25 | | | 82.38 | 83.69 | 1.080 | .270 |
| PE-190-84 | E0 | 431 | 440 | | OOZ | | 6.82 | 69.46 | 19.55 | 4.17 | .21 | | | 79.56 | 80.95 | 1.190 | .270 |
| Bog # X0173 Site # B50W Aug 6/84 | | | | | | | Barren Hill, Richmond Co. | | | | | | | | | | |
| PE-192-84 | C1 | 0 | 50 | 2 | S0 | TrN | 9.64 | .97 | 65.42 | 23.97 | .21 | | | 92.70 | 93.40 | .825 | .065 |
| PE-193-84 | C2 | 50 | 100 | 2 | S9Tr1 | | 9.48 | .74 | 64.33 | 25.45 | .17 | | | 94.23 | 94.78 | .860 | .070 |
| PE-194-84 | C3 | 100 | 124 | 3 | S0 | Tr | 10.18 | .84 | 63.57 | 25.41 | .18 | | | 93.87 | 94.49 | .965 | .070 |
| PE-195-84 | C4 | 124 | 138 | 4 | S9C1 | | 9.47 | 1.19 | 62.66 | 26.68 | .23 | | | 92.96 | 93.63 | .950 | .140 |
| PE-196-84 | C5 | 138 | 175 | 3 | S0 | C | 9.43 | .88 | 64.30 | 25.39 | .29 | 8237. | 19.16 | 93.23 | 93.87 | 1.010 | .100 |
| PE-197-84 | C6 | 175 | 181 | 4 | S8C1Tr1 | | 9.16 | 1.86 | 63.32 | 25.66 | .44 | | | 90.15 | 91.05 | 1.130 | .265 |
| PE-198-84 | C7 | 181 | 200 | 3 | S0 | C | 9.66 | 1.02 | 62.61 | 26.71 | .33 | | | 92.23 | 92.98 | 1.020 | .130 |
| PE-199-84 | C8 | 200 | 218 | 3 | S0 | N | 10.02 | .98 | 62.03 | 26.97 | .23 | 8014. | 18.64 | 92.53 | 93.28 | .970 | .120 |
| PE-200-84 | C9 | 218 | 250 | 3 | S0 | | 9.63 | .94 | 63.57 | 25.86 | .16 | | | 94.13 | 94.70 | .925 | .075 |
| PE-201-84 | D0 | 250 | 308 | 3 | S0 | N | 9.95 | 1.03 | 62.65 | 26.37 | .18 | | | 94.71 | 95.24 | .975 | .060 |
| PE-202-84 | D1 | 308 | 343 | 4 | S9N1 | C | 9.94 | 1.13 | 61.01 | 27.92 | .21 | | | 93.01 | 93.70 | 1.000 | .185 |
| PE-203-84 | D2 | 343 | 350 | 4 | S7N3 | C | 8.94 | 1.65 | 60.29 | 29.12 | .22 | 8768. | 20.39 | 91.52 | 92.28 | .825 | .170 |
| PE-204-84 | D3 | 350 | 375 | 4 | S9C1 | | 9.79 | 1.65 | 61.83 | 26.73 | .20 | | | 92.24 | 93.00 | 1.015 | .230 |
| PE-205-84 | D4 | 375 | 400 | 5 | S7N1L1Fr1 | | 9.71 | 2.83 | 59.14 | 28.32 | .34 | 8920. | 20.75 | 90.78 | 91.68 | .940 | .340 |
| PE-206-84 | D5 | 400 | 415 | 6 | S6N2C1Fr1 | No | 9.56 | 4.63 | 58.89 | 26.92 | .44 | | | 89.67 | 90.66 | .990 | .390 |

Table 2 (Cont'd)

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bog # X0191 Site # B125W605558615 Aug 21/84 | | | | | | Rocky Brook, Cape Breton Co. | | | | | | | | | | | |
| PE-208-84 | C1 | 0 | 96 | 3 | S9C1 | +N | 10.16 | 1.41 | 63.58 | 24.85 | .40 | | | 90.42 | 91.39 | .900 | .155 |
| PE-209-84 | C2 | 96 | 150 | 4 | S9C1 | +N | 10.23 | 1.39 | 62.43 | 25.95 | .22 | | | 93.34 | 94.02 | 1.000 | .160 |
| PE-210-84 | C3 | 150 | 279 | 3 | S0 | | 10.61 | 1.23 | 60.54 | 27.62 | .21 | | | 93.78 | 94.44 | .980 | .110 |
| PE-211-84 | C4 | 279 | 310 | 3 | S0 | +N | 10.37 | 1.27 | 62.78 | 25.58 | .22 | | | 94.51 | 95.08 | 1.005 | .115 |
| PE-212-84 | C5 | 310 | 327 | 4 | S8C1N1 | | 9.95 | 1.39 | 62.30 | 26.36 | .25 | 8749. | 20.35 | 91.89 | 92.70 | 1.000 | .200 |
| PE-213-84 | C6 | 327 | 372 | 5 | S7C2N1 | | 9.44 | 1.40 | 61.70 | 27.46 | .32 | | | 91.98 | 92.74 | 1.010 | .270 |
| PE-214-84 | C7 | 372 | 400 | 5 | S7N2C1 | +Fr | 9.71 | 2.80 | 59.28 | 28.21 | .41 | | | 93.67 | 94.28 | .840 | .315 |
| PE-215-84 | C8 | 400 | 422 | 6 | S7L2N1 | +C Stump 420 | 12.47 | 7.87 | 51.91 | 27.75 | .54 | 8280. | 19.26 | 85.84 | 87.61 | 1.040 | .435 |
| PE-216-84 | C9 | 422 | 429 | 8 | S0 | +C | 10.19 | 12.53 | 52.53 | 24.75 | .65 | | | 81.68 | 83.55 | .970 | .370 |
| PE-217-84 | D0 | 429 | 450 | 5 | S5N3C2 | RO | 11.07 | 4.62 | 55.09 | 29.22 | 1.05 | | | 87.77 | 89.12 | 1.065 | .280 |
| Bog # X0195 Site # B10W Aug 21/84 | | | | | | Fourchu, Richmond Co. | | | | | | | | | | | |
| PE-219-84 | C1 | 0 | 43 | 3 | S9Tr1 | | 9.48 | 1.59 | 65.95 | 22.98 | .27 | | | 92.05 | 92.80 | .800 | .085 |
| PE-220-84 | C2 | 43 | 109 | 3 | S0 | Tr | 10.61 | 1.49 | 63.32 | 24.58 | .32 | | | 92.99 | 93.73 | 1.005 | .100 |
| PE-221-84 | C3 | 109 | 135 | 4 | S9C1 | +N | 10.27 | 1.53 | 63.15 | 25.05 | .33 | | | 93.40 | 94.08 | 1.005 | .170 |
| PE-222-84 | C4 | 135 | 150 | 5 | S8C1N1 | | 10.07 | 1.75 | 62.44 | 25.74 | .34 | 8289. | 19.28 | 91.86 | 92.68 | .990 | .375 |
| PE-223-84 | C5 | 150 | 174 | 4 | S8C1N1 | | 10.22 | 1.85 | 62.82 | 25.11 | .32 | | | 92.96 | 93.68 | 1.010 | .230 |
| PE-224-84 | C6 | 174 | 284 | 5 | S5C4N1 | | 10.60 | 2.18 | 61.95 | 25.27 | .43 | | | 91.45 | 92.36 | 1.015 | .255 |
| PE-225-84 | C7 | 284 | 300 | 5 | S5N3C2 | | 9.93 | 2.62 | 61.62 | 25.83 | .37 | 8702. | 20.24 | 90.98 | 91.88 | .910 | .300 |
| PE-226-84 | C8 | 300 | 350 | 6 | S5N3C2 | | 10.78 | 3.53 | 58.90 | 26.79 | .50 | | | 90.31 | 91.35 | .970 | .355 |
| PE-227-84 | C9 | 350 | 364 | 5 | S6C3N1 | | 9.90 | 4.46 | 61.02 | 24.62 | .61 | | | 91.20 | 92.07 | 1.090 | .320 |
| PE-228-84 | D0 | 364 | 388 | 6 | S7C1N1Fr1 | | 11.09 | 5.65 | 56.52 | 26.74 | .62 | | | 89.90 | 91.02 | .930 | .290 |
| PE-229-84 | D1 | 388 | 400 | 7 | S8N1Fr1 | +C | 10.50 | 7.76 | 56.12 | 25.62 | .55 | 8291. | 19.28 | 86.30 | 87.74 | .895 | .410 |
| PE-230-84 | D2 | 400 | 411 | 8 | S9C1 | Char | 10.07 | 12.83 | 54.16 | 22.94 | .56 | | | 81.60 | 83.45 | .980 | .370 |
| PE-231-84 | D3 | 411 | 428 | 6 | S8C1N1 | | 11.31 | 7.25 | 54.87 | 26.57 | .71 | | | 86.98 | 88.45 | 1.080 | .350 |
| PE-232-84 | D4 | 428 | 450 | 5 | S7C1N1L1 | Till stump 440 | 10.64 | 6.50 | 55.44 | 27.42 | .64 | | | 87.45 | 88.79 | 1.070 | .330 |

Table 2 (Cont'd)

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bog # X0231 Site # B13N30E Aug 15/84 | | | | | | Rams Head, Cape Breton Co. | | | | | | | | | | | |
| PE-234-84 | C1 | 0 | 50 | 2 | S0 | NTr | 9.80 | 1.28 | 64.44 | 24.48 | .20 | | | 92.47 | 93.21 | .845 | .070 |
| PE-235-84 | C2 | 50 | 65 | 2 | S0 | | 9.85 | 1.48 | 63.76 | 24.91 | .24 | | | 95.21 | 95.68 | .745 | .070 |
| PE-236-84 | C3 | 65 | 112 | 3 | S0 | N | 9.69 | 1.14 | 64.25 | 24.92 | .24 | | | 93.87 | 94.46 | .985 | .080 |
| PE-237-84 | C4 | 112 | 142 | 3 | S9N1 | | 10.21 | 1.23 | 61.97 | 26.59 | .25 | | | 93.04 | 93.75 | 1.005 | .120 |
| PE-238-84 | C5 | 142 | 167 | 3 | S0 | N | 9.67 | .99 | 63.63 | 25.71 | .24 | | | 93.83 | 94.43 | .995 | .070 |
| PE-239-84 | C6 | 167 | 186 | 3 | S0 | NC | 9.75 | 1.21 | 62.46 | 26.58 | .25 | | | 92.60 | 93.32 | 1.055 | .145 |
| PE-240-84 | C7 | 186 | 214 | 3 | S0 | N | 9.89 | 1.11 | 63.78 | 25.22 | .23 | | | 93.78 | 94.40 | 1.000 | .085 |
| PE-241-84 | C8 | 214 | 234 | 4 | S9N1 | | 10.27 | 1.44 | 61.20 | 27.09 | .28 | | | 92.58 | 93.34 | .990 | .135 |
| PE-242-84 | C9 | 234 | 288 | 3 | S0 | N | 10.23 | 1.51 | 62.71 | 25.55 | .21 | | | 94.02 | 94.63 | .985 | .080 |
| PE-243-84 | D0 | 288 | 305 | 4 | S0 | N | 10.24 | 1.87 | 61.57 | 26.32 | .26 | | | 92.61 | 93.37 | .940 | .180 |
| PE-244-84 | D1 | 305 | 331 | 5 | S7N2C1 | | 9.99 | 1.99 | 62.46 | 25.56 | .29 | 8591. | 19.98 | 91.41 | 92.27 | 1.000 | .300 |
| PE-245-84 | D2 | 331 | 350 | 6 | S7N2C1 | L | 9.30 | 2.15 | 60.56 | 27.99 | .48 | | | 90.77 | 91.63 | .890 | .240 |
| PE-246-84 | D3 | 350 | 368 | 4 | S8N1Fr1 | C | 9.38 | 2.29 | 60.73 | 27.60 | .34 | | | 90.68 | 91.55 | .965 | .220 |
| PE-247-84 | D4 | 368 | 384 | 6 | S6C1N1L1Fr1 | | 9.43 | 2.30 | 59.85 | 28.42 | .40 | | | 87.12 | 88.33 | 1.010 | .215 |
| PE-248-84 | D5 | 384 | 400 | 7 | S8C1N1 | Char | 10.65 | 4.19 | 55.47 | 29.69 | .40 | | | 88.67 | 89.88 | 1.030 | .465 |
| PE-249-84 | D6 | 400 | 416 | 6 | S6L3N1 | | 10.34 | 3.42 | 55.95 | 30.29 | .49 | 8671. | 20.17 | 87.52 | 88.81 | 1.050 | .285 |
| PE-250-84 | D7 | 416 | 434 | 7 | S0 | CLFrN | 10.61 | 6.11 | 55.01 | 28.27 | .40 | | | 87.01 | 88.39 | 1.015 | .475 |
| PE-251-84 | D8 | 434 | 444 | 8 | S8C2 | | 9.82 | 8.24 | 55.15 | 26.79 | .46 | | | 85.61 | 87.02 | 1.040 | .480 |
| PE-252-84 | D9 | 444 | 450 | 3 | S5C4N1 | | 9.10 | 8.70 | 57.91 | 24.29 | .31 | 8746. | 20.34 | 73.93 | 76.30 | 1.050 | .260 |
| PE-253-84 | E0 | 450 | 467 | 4 | S8S1N1 | | 9.87 | 3.06 | 59.24 | 27.83 | .37 | | | 90.54 | 91.47 | 1.040 | .285 |
| PE-254-84 | E1 | 467 | 483 | 4 | S6L2C1N1 | Gr | 10.44 | 3.90 | 57.21 | 28.45 | .52 | | | 95.81 | 96.25 | .920 | .160 |
| PE-255-84 | E2 | 483 | 500 | 5 | S3C2Gr2L2N1 | | 3.15 | 72.01 | 18.67 | 6.17 | .10 | | | 70.19 | 71.13 | 1.135 | .520 |
| PE-256-84 | E3 | 500 | 510 | 4 | S7L2C1 | Gr | 9.43 | 14.92 | 52.08 | 23.57 | .47 | 5456. | 12.69 | 88.31 | 89.41 | .975 | .235 |
| PE-257-84 | E4 | 510 | 540 | 4 | L5S3C2 | Gr seeds | 7.14 | 30.46 | 44.15 | 18.25 | .28 | | | 84.64 | 85.74 | 1.050 | .310 |
| PE-258-84 | E5 | 540 | 550 | 5 | S7L2N1 | Gr | 9.39 | 15.37 | 53.11 | 22.13 | .42 | | | 87.18 | 88.38 | 1.090 | .250 |
| PE-259-84 | E6 | 550 | 583 | | L3OZ7 | SI | 7.98 | 31.73 | 43.81 | 16.48 | .36 | | | 86.20 | 87.30 | 1.020 | .360 |
| Bog # X0237 Site # B20E Aug 20/84 | | | | | | Marcooche Lake, Cape Breton Co. | | | | | | | | | | | |
| PE-261-84 | C1 | 0 | 58 | 2 | S9Tr1 | N | 10.33 | 1.65 | 64.58 | 23.44 | .28 | | | 92.82 | 93.56 | .895 | .070 |
| PE-262-84 | C2 | 58 | 76 | 3 | S0 | | 9.87 | 1.42 | 63.68 | 25.03 | .36 | | | 92.39 | 93.14 | .980 | .085 |
| PE-263-84 | C3 | 76 | 100 | 2 | S0 | | 10.57 | 1.23 | 64.42 | 23.78 | .28 | 7793. | 18.13 | 93.17 | 93.89 | .945 | .060 |
| PE-264-84 | C4 | 100 | 150 | 3 | S9N1 | | 10.66 | 1.45 | 62.56 | 25.33 | .34 | | | 93.76 | 94.43 | .930 | .080 |
| PE-265-84 | C5 | 150 | 250 | 3 | S0 | | 10.20 | 1.41 | 62.65 | 25.74 | .30 | | | 93.39 | 94.06 | .990 | .085 |
| PE-266-84 | C6 | 250 | 290 | 4 | S9C1 | | 10.02 | 1.30 | 61.96 | 26.72 | .22 | | | 92.89 | 93.60 | 1.050 | .135 |
| PE-267-84 | C7 | 290 | 300 | 4 | S8C2 | | 9.41 | 1.36 | 62.87 | 26.36 | .21 | 8342. | 19.40 | 92.98 | 93.64 | .985 | .175 |
| PE-268-84 | C8 | 300 | 350 | 4 | S8N1Er1 | | 9.97 | 1.54 | 60.73 | 27.76 | .22 | | | 92.11 | 92.90 | 1.060 | .210 |
| PE-269-84 | C9 | 350 | 375 | | S7C2N1 | | 9.62 | 1.72 | 59.33 | 29.33 | .26 | | | 89.51 | 90.52 | .980 | .285 |

Table 2 (Cont'd)

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bog # X0251 Site # B50S Aug 22/84 | | | | | | MacDonald Lake West, Cape Breton Co. | | | | | | | | | | | |
| PE-271-84 | C1 | 0 | 24 | 3 | S8N1Tr1 | +C | 10.03 | 1.39 | 65.41 | 23.17 | .26 | | | 90.41 | 91.37 | .805 | .110 |
| PE-272-84 | C2 | 24 | 30 | 3 | S9Tr1 | | 9.66 | .89 | 66.05 | 23.40 | .18 | | | 92.57 | 93.29 | .935 | .060 |
| PE-273-84 | C3 | 30 | 39 | 3 | S9C1 | +N+Tr | 9.78 | 2.25 | 62.86 | 25.11 | .23 | | | 90.55 | 91.47 | 1.075 | .140 |
| PE-274-84 | C4 | 39 | 66 | 3 | S8Tr2 | +N | 10.10 | .97 | 63.37 | 25.56 | .23 | 8194. | 19.06 | 92.23 | 93.01 | 1.035 | .170 |
| PE-275-84 | C5 | 66 | 74 | 4 | S8N1Tr1 | | 10.08 | 1.12 | 60.95 | 27.85 | .22 | | | 91.37 | 92.24 | 1.125 | .135 |
| PE-276-84 | C6 | 74 | 105 | 3 | S9Tr1 | +N | 9.98 | 1.76 | 62.19 | 26.07 | .19 | | | 93.07 | 93.76 | .980 | .135 |
| PE-277-84 | C7 | 105 | 170 | 4 | S8C1N1 | | 10.18 | 1.18 | 62.34 | 26.30 | .20 | | | 92.41 | 93.18 | .990 | .190 |
| PE-278-84 | C8 | 170 | 177 | 4 | S9N1 | | 9.86 | 1.31 | 61.60 | 27.23 | .19 | 8690. | 20.21 | 92.92 | 93.62 | 1.175 | .180 |
| PE-279-84 | C9 | 177 | 204 | 5 | S7N2C1 | +Li | 9.50 | 1.77 | 62.45 | 26.28 | .23 | | | 91.82 | 92.60 | 1.055 | .255 |
| PE-280-84 | D0 | 204 | 231 | 5 | S6C2N2 | | 9.36 | 1.79 | 62.61 | 26.24 | .25 | | | 91.65 | 92.43 | .960 | .310 |
| PE-281-84 | D1 | 231 | 249 | 8 | S0 | +C+N | 8.56 | 3.85 | 61.69 | 25.90 | .32 | 9553. | 22.22 | 89.60 | 90.49 | 1.010 | .370 |
| Bog # X0253 Site # B70W Aug 23/84 | | | | | | Morrison Brook, Cape Breton Co. | | | | | | | | | | | |
| PE-283-84 | C1 | 0 | 12 | 2 | S0 | | 10.19 | 1.28 | 67.20 | 21.33 | .11 | | | 89.71 | 90.76 | .800 | .095 |
| PE-284-84 | C2 | 12 | 34 | 4 | S0 | N | 10.24 | 2.00 | 62.67 | 25.09 | .21 | | | 90.64 | 91.60 | 1.050 | .195 |
| PE-285-84 | C3 | 34 | 50 | 3 | S0 | | 10.09 | .78 | 64.13 | 25.00 | .17 | | | 92.54 | 93.29 | 1.020 | .080 |
| PE-286-84 | C4 | 50 | 85 | 4 | S0 | | 10.25 | 1.14 | 60.55 | 28.06 | .23 | | | 92.04 | 92.86 | .820 | .215 |
| PE-287-84 | C5 | 85 | 150 | 3 | S0 | N | 10.06 | .69 | 62.91 | 26.34 | .20 | | | 92.92 | 93.63 | 1.060 | .110 |
| PE-288-84 | C6 | 150 | 156 | 5 | S9N1 | | 9.69 | 1.09 | 59.57 | 29.65 | .19 | | | 90.43 | 91.36 | 1.100 | .210 |
| PE-289-84 | C7 | 156 | 200 | 3 | S0 | | 10.60 | 1.37 | 61.85 | 26.18 | .17 | | | 93.02 | 93.76 | 1.025 | .100 |
| PE-290-84 | C8 | 200 | 250 | 4 | S0 | N | 10.39 | 1.14 | 61.11 | 27.36 | .17 | 7925. | 18.43 | 92.24 | 93.05 | 1.035 | .130 |
| PE-291-84 | C9 | 250 | 286 | 3 | S0 | | 10.06 | 1.18 | 61.88 | 26.88 | .16 | | | 93.64 | 94.28 | 1.000 | .105 |
| PE-292-84 | D0 | 286 | 300 | 4 | S8N1Er1 | | 9.84 | 1.15 | 58.77 | 30.24 | .22 | | | 91.17 | 92.04 | 1.020 | .150 |
| PE-293-84 | D1 | 300 | 312 | 3 | S0 | | 9.79 | 1.10 | 64.12 | 24.99 | .17 | | | 92.83 | 93.53 | 1.070 | .095 |
| PE-294-84 | D2 | 312 | 324 | 4 | S6C2N2 | | 9.74 | 2.04 | 61.69 | 26.53 | .22 | | | 91.09 | 91.96 | .995 | .175 |
| PE-295-84 | D3 | 324 | 337 | 4 | S7N2C1 | | 9.69 | 1.57 | 59.30 | 29.44 | .25 | 8772. | 20.40 | 90.49 | 91.41 | 1.100 | .190 |
| PE-296-84 | D4 | 337 | 350 | 5 | S5C2N2L1 | | 9.90 | 2.32 | 58.90 | 28.88 | .31 | | | 89.03 | 90.12 | 1.000 | .240 |
| PE-297-84 | D5 | 350 | 372 | 8 | S7C1Fr1L1 | | 10.93 | 4.84 | 56.14 | 28.09 | .45 | 8461. | 19.68 | 86.27 | 87.77 | 1.050 | .440 |
| PE-298-84 | D6 | 372 | 386 | 7 | S9N1 | +C | 10.62 | 4.30 | 54.90 | 30.18 | .41 | | | 87.40 | 88.74 | 1.080 | .460 |
| PE-299-84 | D7 | 386 | 400 | 4 | S8C1N1 | | 10.77 | 2.66 | 57.56 | 29.01 | .21 | | | 90.49 | 91.51 | 1.020 | .245 |
| PE-300-84 | D8 | 400 | 413 | 5 | S7C2N1 | | 10.28 | 2.82 | 56.86 | 30.04 | .21 | 8511. | 19.80 | 89.15 | 90.27 | 1.015 | .280 |
| PE-301-84 | D9 | 413 | 433 | 3 | S9N1 | | 10.16 | 2.36 | 60.46 | 27.02 | .21 | | | 90.22 | 91.21 | 1.060 | .180 |
| PE-302-84 | E0 | 433 | 450 | 4 | C5S3N2 | | 10.03 | 5.35 | 57.40 | 27.22 | .53 | 8060. | 18.75 | 88.65 | 89.79 | 1.045 | .280 |
| PE-303-84 | E1 | 450 | 464 | 5 | C6S3N1 | | 9.43 | 17.76 | 51.04 | 21.77 | .56 | | | 87.11 | 88.33 | 1.100 | .280 |
| PE-304-84 | E2 | 464 | 500 | | OOZ | | 8.27 | 39.44 | 39.36 | 12.93 | .41 | | | 85.58 | 86.77 | 1.050 | .420 |

Table 2 (Cont'd)

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bog # I0491 Site # B45E30S Aug 24/84** | | | | | | **Baleine, Cape Breton Co.** | | | | | | | | | | | |
| PE-306-84 | C1 | 0 | 32 | 2 | S9C1 | | 10.20 | 2.25 | 63.84 | 23.71 | .55 | | | 91.73 | 92.57 | .720 | .075 |
| PE-307-84 | C2 | 32 | 64 | 3 | S8C2 | | 9.49 | 2.55 | 62.63 | 25.33 | .88 | | | 90.30 | 91.22 | .840 | .180 |
| PE-308-84 | C3 | 64 | 100 | 4 | S7C2N1 | | 9.32 | 2.64 | 61.94 | 26.10 | .89 | | | 88.06 | 89.17 | .970 | .360 |
| PE-309-84 | C4 | 100 | 166 | 5 | S7C2N1 | | 9.63 | 2.25 | 61.36 | 26.76 | .91 | | | 90.80 | 91.69 | 1.005 | .335 |
| PE-310-84 | C5 | 166 | 224 | 5 | S6C3N1 | | 10.11 | 2.85 | 60.81 | 26.23 | 1.11 | 8765. | 20.39 | 90.41 | 91.38 | .985 | .320 |
| PE-311-84 | C6 | 224 | 281 | 5 | S7N2C1 | | 9.97 | 3.06 | 60.12 | 26.85 | .86 | | | 91.21 | 92.09 | .990 | .280 |
| PE-312-84 | C7 | 281 | 300 | 4 | S9N1 | +C | 11.62 | 5.06 | 54.89 | 28.43 | .68 | | | 93.73 | 94.46 | .945 | .185 |
| PE-313-84 | C8 | 300 | 334 | 5 | S9N1 | +FR+C | 10.83 | 3.24 | 60.35 | 25.58 | .85 | | | 91.00 | 91.97 | 1.035 | .415 |
| PE-314-84 | C9 | 334 | 362 | 6 | S9N1 | +FR+C | 10.94 | 5.86 | 55.61 | 27.59 | .83 | 8257. | 19.21 | 90.20 | 91.27 | 1.015 | .440 |
| PE-315-84 | D0 | 362 | 389 | 4 | S8C1N1 | | 11.21 | 4.63 | 57.24 | 26.92 | .74 | | | 92.62 | [illegible] | 1.020 | .285 |
| PE-316-84 | D1 | 389 | 400 | 5 | S6C4 | | 10.10 | 11.12 | 54.00 | 24.78 | .70 | | | 91.52 | [illegible]38 | 1.010 | .400 |
| PE-317-84 | D2 | 400 | 408 | 6 | S8C1N1 | | 10.21 | 10.17 | 55.78 | 23.84 | .75 | 7426. | 17.27 | 88.40 | [illegible].58 | 1.165 | .480 |
| PE-318-84 | D3 | 408 | 427 | 7 | S8C2 | +N till | 9.13 | 23.22 | 48.50 | 19.15 | .60 | | | 83.99 | 85.45 | 1.075 | .645 |
| **Bog # I0531 Site # B30E Aug 24/84** | | | | | | **Black Brook Meadows, Cape Breton Co.** | | | | | | | | | | | |
| PE-320-84 | C1 | 0 | 23 | 2 | S0 | +N+Tr | 10.25 | 2.31 | 66.10 | 21.34 | .20 | | | 92.43 | 93.21 | .740 | .065 |
| PE-321-84 | C2 | 23 | 58 | 3 | S8Tr2 | +N | 9.59 | .91 | 65.01 | 24.49 | .23 | | | 92.13 | 92.88 | .950 | .090 |
| PE-322-84 | C3 | 58 | 150 | 3 | S9Tr1 | N | 10.20 | .81 | 63.73 | 25.26 | .15 | | | 93.43 | 94.10 | 1.010 | .090 |
| PE-323-84 | C4 | 150 | 200 | 3 | S0 | | 10.45 | .92 | 64.22 | 24.41 | .17 | 8019. | 18.65 | 93.52 | 94.20 | 1.020 | .090 |
| PE-324-84 | C5 | 200 | 300 | 3 | S0 | +N | 9.96 | .94 | 62.60 | 26.50 | .18 | | | 93.75 | 94.37 | 1.025 | .100 |
| PE-325-84 | C6 | 300 | 365 | 3 | S0 | | 10.52 | 1.15 | 62.47 | 25.86 | .22 | | | 94.18 | 94.79 | 1.030 | .080 |
| PE-326-84 | C7 | 365 | 420 | 4 | S8N2 | | 10.41 | 1.64 | 60.25 | 27.70 | .28 | 8357. | 19.44 | 92.48 | 93.26 | 1.020 | .250 |
| PE-327-84 | C8 | 420 | 431 | 5 | S7N2C1 | | 9.75 | 1.69 | 60.09 | 28.47 | .33 | | | 91.83 | 92.63 | 1.050 | .290 |
| PE-328-84 | C9 | 431 | 444 | 7 | S8C1N1 | Char | 8.07 | 3.49 | 60.76 | 27.68 | .27 | | | 86.36 | 87.46 | 1.010 | .430 |
| PE-329-84 | D0 | 444 | 450 | 6 | S8C1N1 | | 9.54 | 2.33 | 57.82 | 30.31 | .28 | | | 88.74 | 89.81 | 1.045 | .270 |
| PE-330-84 | D1 | 450 | 468 | 6 | S7C2N1 | | 9.20 | 3.50 | 57.71 | 29.59 | .28 | 9255. | 21.53 | 88.37 | 89.44 | .990 | .380 |
| PE-331-84 | D2 | 468 | 500 | 6 | S7C1N1L1 | +N | 9.01 | 3.80 | 59.28 | 27.91 | .31 | | | 88.48 | 89.52 | 1.040 | .355 |
| PE-332-84 | D3 | 500 | 520 | 6 | S7N2C1 | | 10.72 | 4.79 | 56.88 | 27.61 | .58 | | | 88.52 | 89.75 | 1.060 | .350 |

Table 2 (Cont'd)

| Laboratory No. | Sample code | Depth From | Depth To | Humification H1-H10 | Peat type | Remarks | Moisture % | Ash % | Volatile matter % | Fixed carbon % | Sulphur % | Heating value BTU/lb | Heating value MJ/kg | Air dried moisture % | Total moisture % | Wet bulk density g/ml | Dry bulk density g/ml |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bog # I0795 Site # B140E10S Aug 16/84 | | | | | | Sand Lake, Cape Breton Co. | | | | | | | | | | | |
| PE-334-84 | C1 | 0 | 19 | 2 | SO | +N | 10.32 | 2.82 | 64.30 | 22.56 | .15 | | | 90.40 | 91.39 | .630 | .080 |
| PE-335-84 | C2 | 19 | 41 | 2 | SO | +Tr | 9.71 | 1.03 | 65.65 | 23.61 | .30 | | | 92.63 | 93.35 | .890 | .065 |
| PE-336-84 | C3 | 41 | 57 | 3 | SO | +Tr | 10.45 | 1.28 | 62.90 | 25.37 | .32 | | | 91.76 | 92.62 | 1.485 | .120 |
| PE-337-84 | C4 | 57 | 80 | 2 | SO | | 10.01 | 1.01 | 63.90 | 25.08 | .24 | | | 93.38 | 94.04 | .940 | .060 |
| PE-338-84 | C5 | 80 | 100 | 3 | S9W1 | | 10.40 | 1.04 | 62.10 | 26.46 | .31 | | | 92.14 | 92.96 | .555 | .095 |
| PE-339-84 | C6 | 100 | 127 | 3 | SO | +N | 10.22 | .99 | 63.69 | 25.10 | .24 | | | 93.35 | 94.03 | .990 | .070 |
| PE-340-84 | C7 | 127 | 186 | 2 | SO | | 9.64 | .98 | 64.40 | 24.98 | .23 | | | 93.77 | 94.37 | .980 | .070 |
| PE-341-84 | C8 | 186 | 197 | 2 | SO | | 10.28 | .98 | 64.82 | 23.92 | .21 | | | 93.73 | 94.37 | .980 | .065 |
| PE-342-84 | C9 | 197 | 205 | 4 | S8N2 | | 10.09 | 1.28 | 60.94 | 27.69 | .32 | | | 91.57 | 92.42 | 1.020 | .175 |
| PE-343-84 | D0 | 205 | 250 | 3 | SO | | 9.88 | 1.08 | 63.42 | 25.62 | .29 | | | 92.90 | 93.60 | .890 | .100 |
| PE-344-84 | D1 | 250 | 300 | 3 | SO | +N | 9.91 | 1.10 | 63.23 | 25.76 | .29 | | | 93.30 | 93.96 | 1.020 | .100 |
| PE-345-84 | D2 | 300 | 318 | 3 | SO | +N | 10.26 | .98 | 63.28 | 25.48 | .24 | | | 93.45 | 94.12 | 1.045 | .075 |
| PE-346-84 | D3 | 318 | 345 | 4 | S9W1 | | 9.94 | 1.06 | 60.53 | 28.47 | .35 | | | 91.72 | 92.54 | 1.025 | .160 |
| PE-347-84 | D4 | 345 | 350 | 3 | SO | +N | 9.99 | 1.09 | 62.36 | 26.56 | .28 | | | 92.87 | 93.58 | 1.010 | .090 |
| PE-348-84 | D5 | 350 | 360 | 4 | S9W1 | | 10.18 | 1.21 | 58.63 | 29.98 | .40 | | | 92.15 | 92.95 | 1.050 | .240 |
| PE-349-84 | D6 | 360 | 391 | 3 | S9W1 | | 9.90 | .96 | 63.57 | 25.57 | .25 | | | 93.45 | 94.10 | .940 | .090 |
| PE-350-84 | D7 | 391 | 400 | 4 | S9W1 | | 10.33 | 1.00 | 60.78 | 27.89 | .30 | | | 92.52 | 93.29 | 1.050 | .110 |
| PE-351-84 | D8 | 400 | 435 | 3 | SO | +N | 9.69 | .92 | 62.58 | 26.81 | .28 | | | 93.85 | 94.45 | .940 | .085 |
| PE-352-84 | D9 | 435 | 450 | 3 | S8N2 | | 10.28 | 1.09 | 59.71 | 28.92 | .29 | | | 92.21 | 93.01 | 1.060 | .150 |
| PE-353-84 | E0 | 450 | 500 | 3 | SO | +N | 10.16 | 1.14 | 61.47 | 27.23 | .24 | | | 92.56 | 93.32 | 1.045 | .150 |
| PE-354-84 | E1 | 500 | 515 | 4 | S9W1 | | 10.21 | 1.40 | 60.37 | 28.02 | .28 | | | 92.05 | 92.86 | 1.005 | .240 |
| PE-355-84 | E2 | 515 | 567 | 3 | SO | +N | 10.08 | 1.16 | 61.51 | 27.25 | .25 | | | 92.16 | 92.95 | .920 | .110 |
| PE-356-84 | E3 | 567 | 595 | 4 | S9W1 | | 10.11 | 1.28 | 60.67 | 27.94 | .22 | | | 92.18 | 92.97 | .980 | .180 |
| PE-357-84 | E4 | 595 | 620 | 3 | SO | +N+C | 10.32 | 1.16 | 60.58 | 27.94 | .17 | | | 92.65 | 93.41 | 1.000 | .160 |
| PE-358-84 | E5 | 620 | 659 | 3 | S9W1 | | 10.73 | 1.45 | 58.38 | 29.44 | .14 | | | 91.27 | 92.21 | .930 | .185 |
| PE-359-84 | E6 | 659 | 680 | 4 | S7N2C1 | | 9.58 | 1.63 | 61.24 | 27.55 | .21 | 8609. | 20.02 | 91.69 | 92.49 | 1.055 | .230 |
| PE-360-84 | E7 | 680 | 690 | 4 | S6N4 | +N | 9.45 | 1.87 | 59.88 | 28.80 | .25 | | | 91.32 | 92.14 | 1.040 | .190 |
| PE-361-84 | E8 | 690 | 700 | 5 | S6Fr3W1 | | 9.76 | 3.02 | 58.47 | 28.75 | .35 | | | 90.83 | 91.72 | .850 | .245 |
| PE-362-84 | E9 | 700 | 720 | 6 | S7N2C1 | +Char | 9.39 | 2.75 | 59.82 | 28.04 | .39 | 9268. | 21.56 | 90.74 | 91.61 | 1.070 | .375 |
| PE-363-84 | G0 | 720 | 733 | 6 | S8C1N1 | | 9.18 | 4.79 | 59.05 | 26.98 | .46 | | | 87.63 | 88.77 | 1.015 | .365 |
| PE-364-84 | G1 | 733 | 750 | 4 | C6S3W1 | | 9.03 | 2.56 | 62.00 | 26.41 | .37 | | | 90.18 | 91.07 | 1.025 | .245 |
| PE-365-84 | G2 | 750 | 800 | 5 | C9N1 | | 9.54 | 2.43 | 61.17 | 26.86 | .39 | 8962. | 20.85 | | | | .245 |
| PE-366-84 | G3 | 800 | 821 | 5 | C9N1 | +seeds | 9.88 | 2.80 | 59.79 | 27.53 | .53 | | | | | | .26 |
| PE-367-84 | G4 | 821 | 833 | | OOZ | Silt | 3.83 | 66.60 | 22.79 | 6.78 | .28 | | | | | | .62 |

Table 3 - The meanings for symbols used under "Peat Types" and "Remarks"

| | |
|---|---|
| S | - *Sphagnum* spp. |
| C | - *Carex* spp. |
| N | - Shrubs |
| Tr | - *Scirpus cespitosus* (Deergrass) |
| L | - Wood |
| Sh | - *Scheuchzeria palustris* |
| Fr | - Fern roots |
| Pr | - *Phragmites communis* |
| Er | - *Eriophorum* spp. |
| MS | - miscellaneous |
| Poly | - *Polygonum* spp. |
| TILL | - Till bottom |
| R = 1 | - noticeable presence of roots |
| R = 2 | - significant presence of roots |
| R = 3 | - predominantly roots |
| + | - some |

The numeric indices used in Peat Types refer to % of that material to the nearest 10% with that of 100% represented by 0.

Egs. $S_0$ 100% *Sphagnum*

$S_8N_1C_1$ 80% *Sphagnum*, 10% Shrubs and 10% *Carex*

Table 4 - Number of samples and number of analyses

| Bog name | Bog # | No. of samples | Prox. | Sul. | H.V. | Air dry M | Total M | W.B.D. | D.B.D. |
|---|---|---|---|---|---|---|---|---|---|
| MacLeod's Lake | X0171 | 20 | 20 | 20 | 4 | 20 | 20 | 20 | 20 |
| Barren Hill Bog | X0173 | 15 | 15 | 15 | 4 | 15 | 15 | 15 | 15 |
| Rocky Brook | X0191 | 10 | 10 | 10 | 2 | 10 | 10 | 10 | 10 |
| Fourchu Bog | X0195 | 14 | 14 | 14 | 3 | 14 | 14 | 14 | 14 |
| Rams Head Bog | X0231 | 26 | 26 | 26 | 4 | 26 | 26 | 26 | 26 |
| Marcoche Lake Bog | X0237 | 9 | 9 | 9 | 2 | 9 | 9 | 9 | 9 |
| MacDonald Lake West | X0251 | 11 | 11 | 11 | 3 | 11 | 11 | 11 | 11 |
| Morrison Brook | X0253 | 22 | 22 | 22 | 5 | 22 | 22 | 22 | 22 |
| Baleine Bog | X0491 | 13 | 13 | 13 | 3 | 13 | 13 | 13 | 13 |
| Black Brook Meadows | X0531 | 13 | 13 | 13 | 3 | 13 | 13 | 13 | 13 |
| Sand Lake Bog | X0795 | 34 | 34 | 34 | 3 | 31 | 31 | 31 | 34 |
| | | 187 | 187 x 4 | 187 | 36 | 184 | 184 | 184 | 187 |
| | | | 748 | 187 | 36 | 184 | 184 | 184 | 187 |

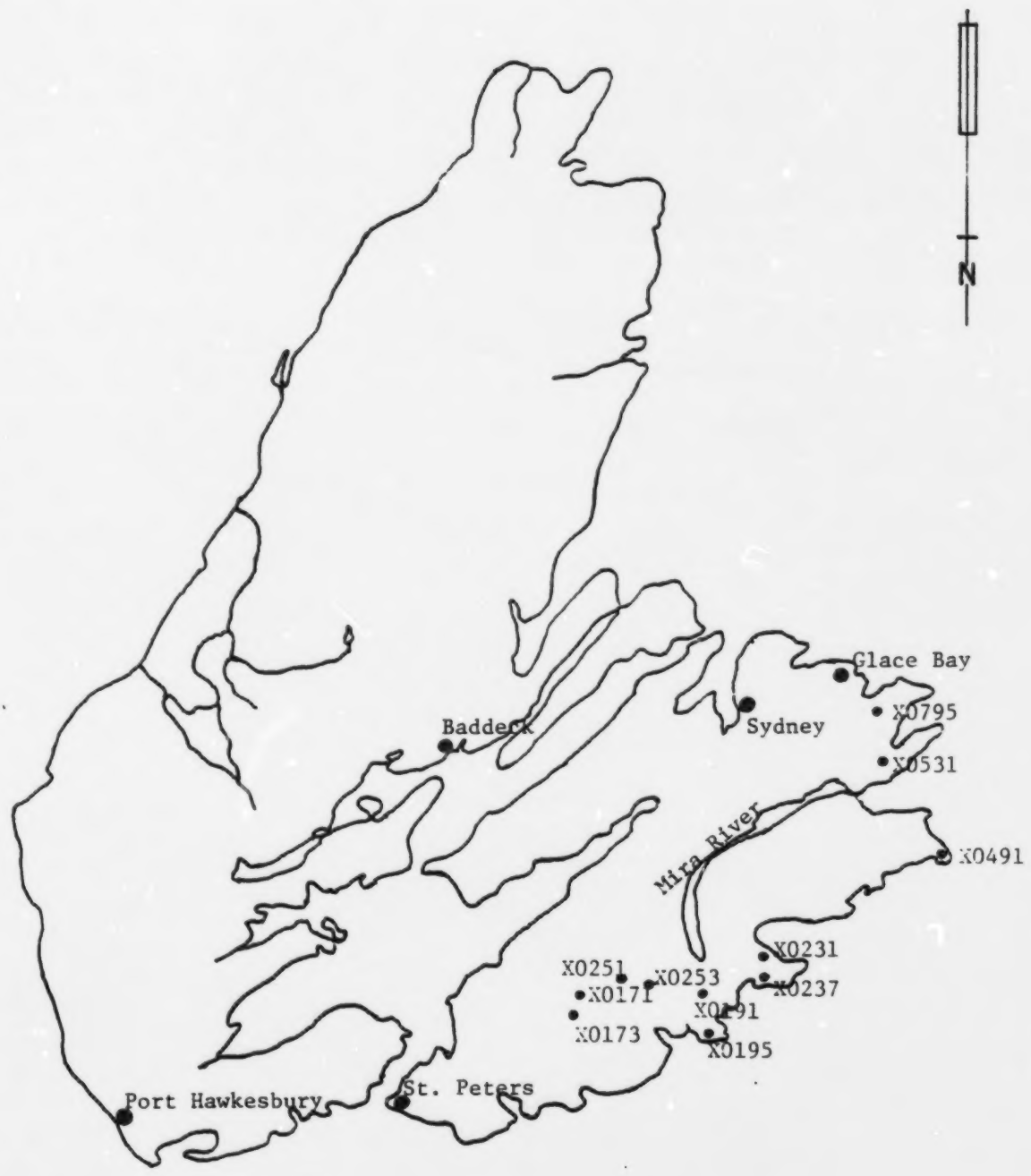


Fig. 1 - Location of bog holes in Cape Breton, Nova Scotia

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